PHYLLOTRETA CHEVROLAT IN TURKEY WITH A NEW RECORD (CHRYSOMELIDAE: GALERUCINAE: ALTICINI)

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ABSTRACT: Species of the genus *Phyllotreta* Chevrolat in Turkey are investigated and reviewed. As a result of this, *Phyllotreta* includes 44 species in Turkey. *Phyllotreta araxicola* Khnzorian is recorded for the first time from Turkey. Twenty seven species are reported with new distributional data from 16 different provinces in Turkey on the base of 2864 studied specimens. Accordingly eleven species as *P. atra* (Fabricius), *P. caucasicola* Heikertinger, *P. corrugata* Reiche & Saulcy, *P. erysimi* Weise, *P. nemorum* (Linnaeus), *P. nigripes* (Fabricius), *P. nodicornis* (Marsham), *P. pontoaegeica* Gruev, *P. procera* (Redtenbacher), *P. punctulata* (Marsham) and *P. undulata* (Kutschera) are recorded for the first time from Çankırı province in Northern part of Central Anatolian Region of Turkey. Eleven species: *P. astrachanica* Lopatin, *P. atra* (Fabricius), *P. cruciferae* (Goeze), *P. diademata* Foudras, *P. erysimi* Weise, *P. lativittata* Kutschera, *P. nemorum* (Linnaeus), *P. nigripes* (Fabricius), *P. punctulata* (Marsham), *P. undulata* (Kutschera) and *P. variipennis* (Boieldieu) are recorded for the first time from Bartın province in Western Black Sea Region of North Turkey. Seven species: *P. atra* (Fabricius), *P. cruciferae* (Goeze), *P. lativittata* Kutschera, *P. ochripes* (Curtis), *P. striolata* (Illiger), *P. undulata* (Kutschera) and *P. variipennis* (Boieldieu) are recorded for the first time from Zonguldak province in Western Black Sea Region of North Turkey. Four species: *P. fallaciosa* Heikertinger, *P. erysimi* Weise, *P. undulata* (Kutschera) and *P. weiseana* Jakobson are recorded for the first time from Kayseri province in Eastern part of Central Anatolian Region of Turkey. Three species: *P. fallaciosa* Heikertinger, *P. punctulata* (Marsham) and *P. undulata* (Kutschera) are recorded for the first time from Ankara province in Northern part of Central Anatolian Region of Turkey. Two species: *P. atra* (Fabricius) and *P. variipennis* (Boieldieu) are recorded for the first time from Karaman province in South part of Central Anatolian Region of Turkey. Two species: *P. atra* (Fabricius) and *P. nigripes* (Fabricius) are recorded for the first time from Afyon province in Eastern part of Aegean Region of Turkey. One species: *P. nigripes* (Fabricius) is recorded for the first time from Bolu province in Western part of Black Sea Region of Turkey. And one species: *P. corrugata* Reiche & Saulcy is recorded for the first time from Şanlıurfa province in South-Eastern Anatolian Region of South Turkey. Also known records of *P. cruciferae* (Goeze) and *P. diademata* Foudras in European Turkey and known records of *P. fornuseki* Cizek, *P. ganglbaueri* Heikertinger and *P. lorestanica* Warchalowski in Anatolia are given for the first time and contribute to distribution data in the Palaearctic catalogue.

KEY WORDS: Chrysomelidae, Galerucinae, Alticini, *Phyllotreta,* new data and records, Turkey

Phyllotreta Chevrolat, 1836 is one of the largest worldwide alticine genus which contains approximately 150 species in the Palearctic region and more than 250 species worldwide (Konstantinov & Vandenberg, 1996, 2015). The members of this genus are specialist feeders on the Brassicaceae and related groups (Jolivet & Hawkeswood, 1995). Thus most species of this genus are known as crop pests. Adults usually feed on the foliage of host plant.

The Palearctic species of *Phyllotreta* were revised by Heikertinger (1941), and recently given by Warchalowski (2003, 2010) and Döberl in Löbl & Smetana (2010).

Heikertinger (1941) and Warchalowski (2003, 2010) divided *Phyllotreta* species into two main groups on the base of upper side with yellow or reddish pattern, sometimes elytra entirely or almost entirely yellow and upper side uniformly black or black with metallic reflex. These authors also divided *Phyllotreta* species with uniformly black upper side into two groups based on whether they have the central part of the frons punctured.

Aslan et al. (1999) reported 36 species for Turkey is the first comprehensive work on Turkish *Phyllotreta*. Then Döberl in Löbl & Smetana (2010) mentioned 38 species for Turkey with the addition of *P. bulgarica* Gruev, 1977 and *P. reitteri* Heikertinger, 1911 that were firstly recorded by Aslan & Gök (2006) from Isparta province and by Gök et al. (2002) from Denizli province respectively. Later Ekiz et al. (2013), Özdikmen et al. (2014) and Özdikmen (2014) gave a total of 41 species for Turkish fauna with the addition of *P. fornuseki* Cizek, 2003 by Aslan, Gök (2006) from Isparta province, *P. ganglbaueri* Heikertinger, 1909 by Çilbiroğlu (2003) and Ekiz et al. (2013) from Isparta and Antalya provinces, and *P. lorestanica* Warchałowski, 1973 by Aslan et al. (2004) and Ekiz et al. (2013) from Erzurum and Burdur provinces. *P. aygulae* Özdikmen et al. (2017) and *P. bilgeae* Özdikmen & Coral Şahin (2017) described as new species from Turkey.

Thus, the number of species of Turkish *Phyllotreta* increases from 41 to 44 with the new species and a new record, *Phyllotreta araxicola* Khnzorian.

MATERIALS AND METHODS

A total of 2864 *Phyllotreta* specimens were collected by authors mainly from 16 different provinces in Turkey as Afyon, Ankara, Bartın, Bolu, Çankırı, Düzce, Eskişehir, Isparta, Karaman, Kayseri, Konya, Mersin, Niğde, Ordu, Şanlıurfa and Zonguldak. As a result of identification of them, twenty-seven known species were determined. The available specimens for the present study are deposited in the collections of Gazi University and Nazife Tuatay Plant Protection Museum (NTM) (Turkey: Ankara).

Information in the present text is given in following order:

The genus name, the type species and synonyms and also the valid species name and synonyms are presented. Each species group taxa, reported from Turkey, are given alphabetically. The Turkish distribution patterns for each species group taxon are given only concerning provinces. Turkish endemic taxa are marked with the sign (*).

The distribution data of the taxa, Ekiz et al. (2013), Özdikmen (2014) for Turkey and Döberl in Löbl & Smetana (2010) for Palaearctic Region are used.

Distributional abbreviations for the works are available to Döberl in Löbl & Smetana (2010). The data are given in addition to the distribution data in Palaearctic catalogue, marked underlined.

RESULTS

Phyllotreta includes 44 species in Turkey with newly described species and a new record. Turkish *Phyllotreta* is reviewed on the base of 2864 specimens of 27 species from 16 different provinces in Turkey with the present work. All members of Turkish *Phyllotreta* are presented as follows:

Phyllotreta Chevrolat, 1836

Phyllotreta Chevrolat in Dejean, 1836: 391 (type species *Chrysomela nemorum* Linnaeus, 1758 by subsequent designation by Desmarest, 1860: 351)
Orchestris Crotch, 1873: 57, 65, a junior homonym of *Orchestris* Kirby, 1837 (type species *Chrysomela nemorum* Linnaeus, 1758 by original designation)
Tanygaster Blatchley, 1921: 26-27 (type species *T. ovalis* Blatchley, 1921, by monotypy). Smith, 1979: 359 (synonymized)

Phyllotreta acutecarinata Heikertinger, 1941

Phyllotreta acutecarinata Heikertinger, 1941: Koleop. Rund., 27: 81

This species is known only from Konya province in Turkey. It is distributed in Europe (AU GR PL RU SK UK) and Asia (AF TR).

Phyllotreta araxicola Iablokoff-Khnzorian, 1968

Phyllotreta araxicola Iablokoff-Khnzorian, 1968: Ann. Soc. ent. Fr. (N. S.), 4: 273

This species has not been known from Turkey until now. It is distributed in Asia (AB AR). ***Material examined:*** **Çankırı prov.:** Yapraklı, between Gürmeç-Kayacık, 29.IV.2015. 1100 m, leg. N. Silkin, 1 specimen. ***Remarks:*** The species is a new record to Turkey.

Phyllotreta astrachanica Lopatin, 1977

Phyllotreta diademata astrachanica Lopatin, 1977: New and little known species of insects of the European part of the USSR–Leningard, p. 32

This species is known from Ankara, Antalya, Artvin and Isparta provinces in Turkey. It is distributed in Europe (AU BU CZ FR GE GR HU IT NL PL SK SL SP ST SZ YU) and Asia (AB CY GG IN KZ TR). ***Material examined:*** **Ankara prov.:** Nallıhan, Davutoğlan, 05.V.2015, 474 m, leg. D. Şahin, 18 specimens; Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 3 specimens; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 13 specimens. ***Remarks:*** The species is a new record to Bartın province for Turkey.

Phyllotreta atra (Fabricius, 1775)

Altica atra Fabricius, 1775: Syst. Ent., p. 115
Chrysomela pulex Schrank, 1781: Enum Insect. Austr., p. 85
Altica aethiopissa Schrank, 1789: Der Naturforsch., 24: 69
Altica aterrima Schrank, 1798: Fauna Boica, p. 561
Haltica melaenea Illiger, 1807: Mag. Ins., 6: 60

This species is known from Ankara, Antalya, Bayburt, Bolu, Edirne, Erzurum, Eskişehir, Gümüşhane, Isparta, Kayseri, Kocaeli, Niğde, Rize, Samsun, Sivas and Trabzon provinces in Turkey. It is distributed in Europe (AL AU BE BH BU BY CR CZ DE EN FI FR GB GE GR HU IT LA LT LU MC NL NR PL RO RU SK SL SP ST SV SZ TR UK YU), North Africa (AG MO) and Asia (AB AF AR ES FE GG IN JO KI KZ MG SY TD TR YE). ***Material examined:*** **Afyon prov.:** Central, Gebeciler, 27.VII.1983, leg. T. Davarcı, 2 specimens; **Ankara prov.:** Polatlı, Sazılar, 07.V.1990, leg. M. Aydemir, 1 specimen; Ayaş, Başbereket, 09.V.1990, leg. M. Aydemir, 2 specimens; Çubuk, Sarıkoz, 16.V.1990, leg. M. Aydemir, 3 specimens; Ayaş, Bayram, 05.VI.1990, leg. M. Aydemir, 1 specimen; Ayaş, Uğurçayırı, 05.VI.1990, leg. M. Aydemir, 2 specimens; Beypazarı, Dibecik, 31.VII.1990, leg. M. Aydemir, 1 specimen; Temelli, 08.VIII.1990, leg. M. Aydemir, 2 specimens; between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 1 specimen; Central, 01.VIII.1967, leg. M. Yüksel, 24 specimens; Çubuk, 18.IV.2014, 978 m, leg. D. Şahin, 5 specimens; Nallıhan, Davutoğlan, 05.V.2015, 474 m, leg. D. Şahin, 87 specimens; Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 5 specimens; Haymana, Soğulca, 07.V.2015, 948 m, leg. D. Şahin, 156 specimens; Sincan, Malıköy, 02.VI.2015, 721 m, leg. D. Şahin, 9 specimens; Haymana, Soğulca, 02.VI.2015, 690 m, leg. D. Şahin, 3 specimens; Çamlıdere, Kuşçular, 22.VI.2015, 1410 m, leg. D. Şahin, 1 specimen; Kızılcahamam, Akdoğan, 22.VI.2015, 1031 m, leg. D. Şahin, 5 specimens; Polatlı, Yassıhöyük, 11.VIII.2015, 696 m, leg. D. Şahin, 23 specimens; Polatlı, Acıkır, 11.VIII.2015, 690 m, leg. D. Şahin, 3 specimens; Ayaş, Beypazarı road, 13.VIII.2015, 711 m, leg. D. Şahin, 1

specimen; Beypazarı, Dibecik, 13.VIII.2015, 537 m, leg. D. Şahin, 13 specimens; Ayaş, Feruz, 13.VIII.2015, 1075 m, leg. D. Şahin, 6 specimens; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, leg. D. Şahin, 25 specimens; Haymana, Soğulca, 17.VIII.2015, 690 m, leg. D. Şahin, 9 specimens; Kazan, Cimşit, 15.IX.2015, 845 m, leg. D. Şahin, 26 specimens; Beypazarı, Hacıkaralar, 26.V.2016, leg. A. Barış, 37 specimens; Sincan, 17.VIII.2016, 842 m, leg. A. Barış, 13 specimens; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 206 specimens; Karasu, 12.V.2015, leg. D. Şahin, 1 specimen; Dallıca, 17.VI.2016, 97 m, leg. A. Barış, 4 specimens; **Çankırı prov.:** Orta, entry of İncecik village, 22.V.2014, 1600 m, leg. N. Silkin, 1 specimen; Ilgaz, entry of Belsöğüt village, 1019 m, 17.VII.2014, leg. N. Silkin, 1 specimen; Eldivan, Seydiköy, 854 m, 09.VIII.2014, leg. N. Silkin, 1 specimen; Çerkeş, Yalıözü-Ova, 19.IV.2015, 1154 m, leg. N. Silkin, 1 specimen; Çerkeş, Kuzuören village road, 20.IV.2015, 939 m, leg. N. Silkin, 3 specimens; Atkaracalar, Zerdeş return, 21.IV.2015, 1212 m, leg. N. Silkin, 1 specimen; Bayramören, Erenler-Dolaşlar, 24.IV.2015, 925 m, leg. N. Silkin, 6 specimens; Bayramören, exit of Yurtpınar village, 24.IV.2015, 829 m, leg. N. Silkin, 7 specimens; Kurşunlu, exit of Çaylıca village, 25.IV.2015, leg. N. Silkin, 1 specimen; Kurşunlu, Yeşilören village road, 26.IV.2015, 1027 m, leg. N. Silkin, 1 specimen; Central, Akçavalı-Başeğmez villages' road, 27.IV.2015, leg. N. Silkin, 1 specimen; Central, Aşağıçavuş village, 27.IV.2015, 833 m, leg. N. Silkin, 1 specimen; Yapraklı, Ayva village road, 30.IV.2015, 1256 m, leg. N. Silkin, 1 specimen; Central, Aşağıçavuş-Yukarıçavuş return, 09.V.2015, 837 m, leg. N. Silkin, 1 specimen; Central, Alanpınar-Başeğmez return, 09.V.2015, 822 m, leg. N. Silkin, 1 specimen; Kurşunlu, Kapaklı-Taşkaracalar, 11.V.2015, 1297 m, leg. N. Silkin, 1 specimen; **Eskişehir prov.:** 05.V.1993, *Hordeum vulgare*, leg. G. Altınayar, 3 specimens; **Karaman prov.:** 2015, leg. D. Şahin, 3 specimens; **Kayseri prov.:** Melikgazi, Sarımsaklı, 23.VI.2016, 1222 m, leg. D. Şahin, 58 specimens; Kocasinan, Ebiç, 23.VI.2016, 1053 m, leg. D. Şahin, 6 specimens; Beldeğirmeni, 24.VI.2016, 978 m, leg. D. Şahin, 1 specimen; Yahyalı, Sarıoğlan, 14.VII.2016, 1120 m, leg. D. Şahin, 23 specimens; Akkışla, Alevkışla, 14.VII.2016, 1278 m, leg. D. Şahin, 19 specimens; **Niğde prov.:** Exit of Ulukışla, 29.V.2001, 1350 m, leg. H. Özdikmen, 1 specimen; **Zonguldak prov.:** Devrek, Yılanlıca, 18.III.2016, 124 m, leg. C. Yücel, 45 specimens; Devrek, 20.IV.2016, leg. A. Barış, 11 specimens; Beycuma, Yörükler, 02.VI.2016, 232 m, leg. C. Yücel, 4 specimens; Beycuma, Korucuk, 02.VI.2016, 130 m, leg. C. Yücel, 2 specimens; Devrek, Yassıören, 02.VI.2016, 382 m, leg. C. Yücel, 37 specimens. ***Remarks:*** The species is a new record to Afyon, Bartın, Çankırı, Karaman and Zonguldak provinces for Turkey.

(*) *Phyllotreta aygulae* Özdikmen et al., 2017

This species is known from Ankara, Bartın and Çankırı provinces in Turkey. It is distributed in Asia (TR). ***Material examined:*** **Ankara prov.:** Nallıhan, Davutoğlan, 05.V.2015, 474 m, leg. D. Şahin, 3 specimens; Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 1 specimen; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, 1 specimen; **Bartın prov.:** Güzelcehisar, 12.V.2015, 250 m, leg. D. Şahin, 18 specimens; **Çankırı prov.:** Bayramören, exit of Yurtpınar village, 24.IV.2015, 829 m, leg. N. Silkin, 1 specimen; Ilgaz, Candere-Bükcük villages, 26.IV.2015, 874 m, leg. N. Silkin, 2 specimens. ***Remarks:*** The specimens are the holotype and paratypes of the species.

Phyllotreta balcanica Heikertinger, 1909

Phyllotreta balcanica Heikertinger, 1909: Verh. zool.–bot. Ges. Wien, 59: 292
Phyllotreta adanensis Pic, 1910a: L'Echange, Rev. Linn., 26: 26
Phyllotreta adanensis var. *anatolica* Pic, 1910b: Bull. Soc. Ent. Fr., 1910: 306

This species is known from Adana, Bursa, Erzurum and Kocaeli provinces in Turkey. It is distributed in Europe (AL AU BH BU CR FR GR HU IT MC RO SL SP ST UK YU) and Asia (AB AF KI KZ TR UZ).

(*) *Phyllotreta bilgeae* Özdikmen & Coral Şahin, 2017

This species is known from Ankara, Bartın and Çankırı provinces in Turkey. It is distributed in Asia (TR). ***Material examined:*** **Ankara prov.:** Haymana, Soğulca village, 22.V.2014, 948 m, leg. D. Şahin, 2 specimens. ***Remarks:*** The specimens are the holotype

and paratype of the species.

(*) *Phyllotreta bolognai* Biondi, 1992

Phyllotreta bolognai Biondi, 1992: Fragm. Entomol., Roma, 23: 349

This species is known from Antalya, Erzurum and Isparta provinces in Turkey. It is distributed in Asia (TR).

Phyllotreta bulgarica Gruev, 1977

Phyllotreta bulgarica Gruev, 1977: Acta zool. Bulg., 8: 67

This species is known only from Isparta province in Turkey. It is distributed in Europe (BU GR) and Asia (IS TR).

Phyllotreta caucasicola Heikertinger, 1941

Phyllotreta caucasicola Heikertinger, 1941: Koleop. Rund., 27: 82

This species is known only from Ankara province in Turkey. It is distributed in Europe (ST) and Asia (AR IQ TR). ***Material examined:*** **Çankırı prov.:** Central, Ova-Kuzuköy, 29.IV.2015, leg. N. Silkin, 3 specimens. ***Remarks:*** The species is a new record to Çankırı province for Turkey.

Phyllotreta corrugata Reiche & Saulcy, 1858

Phyllotreta corrugata Reiche & Saulcy, 1858: Ann. Soc. ent. Fr., 6: 46
Phyllotreta rufitarsis var. *beauprei* Pic, 1909: L'Echange, 25: 156
Phyllotreta galloprovincialis Caillol, 1914: Cat. Col. Prov. III, 1914: 540
Phyllotreta discophora Iablokoff-Khnzorian, 1960: Notul. Ent., 40: 152
Phyllotreta bella Paliy, 1970: Entomologicheskie Issledovaniya v Kirgizii, p. 3

This species is known from Adana, Afyon, Ankara, Antalya, Burdur, Hatay, Isparta, İzmir, Kayseri, Konya, Sivas and Yozgat provinces in Turkey. It is distributed in Europe (BU FR GB GR IT MA SP ST UK), North Africa (AG EG LB MO TU) and Asia (AB AF AR CY IN IQ IS JO KZ SY TM TR UZ). ***Material examined:*** **Afyon prov.:** Sandıklı, 14.IV.1983, *Triticum,* leg. M. A. Doğru, 2 specimens; **Ankara prov.:** Polatlı, Temelli, 06.VI.1985, leg. H. Zeki, 1 specimen; Polatlı, Düç, 08.V.1990, leg. M. Aydemir, 2 specimens; Beypazarı, Dibecik, 09.V.1990, leg. M. Aydemir, 1 specimen; Çubuk, Sarıkoz, 16.V.1990, leg. M. Aydemir, 1 specimen; between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 5 specimens; Nallıhan, Davutoğlan, 05.V.2015, leg. D. Şahin, 1 specimen; Haymana, Soğulca, 07.V.2015, 948 m, leg. D. Şahin, 2 specimens; **Çankırı prov.:** Korgun, 21-22.IV.2013, 837-957 m, leg. N. Silkin, 2 specimens; Eldivan, 23.IV.2013, 1068-1196 m, leg. N. Silkin, 2 specimens; Central, 26.IV.2014, 617-766 m, leg. N. Silkin, 2 specimens; Çerkeş, Yalıözü-Hacılar, 20.VIII.2014, 1217 m, leg. N. Silkin, 6 specimens; Kurşunlu, Kapaklı-Taşkaracalar, 17.IV.2015, 1318 m, leg. N. Silkin, 2 specimens; Çerkeş, 1 km to Kocamustafa village, 19.IV.2015, 1182 m, leg. N. Silkin, 1 specimen; Çerkeş, Yalıözü-Ova, 19.IV.2015, 1154 m, leg. N. Silkin, 4 specimens; Çerkeş, entry of Aliözü village, 20.IV.2015, 1221 m, leg. N. Silkin, 2 specimens; Çerkeş, Tohumlar-Yıpraktaşanlar return, 20.IV.2015, 1039 m, leg. N. Silkin, 5 specimens; Çerkeş, entry of Tohumlar village, 20.IV.2015, 1081 m, leg. N. Silkin, 1 specimen; Çerkeş, Kuzuören village road, 20.IV.2015, 939 m, leg. N. Silkin, 1 specimen; Çerkeş, Çaylı village, 20.IV.2015, 931 m, leg. N. Silkin, 10 specimens; Atkaracalar, Zerdeş return, 21.IV.2015, 1212 m, leg. N. Silkin, 1 specimen; Bayramören, Erenler-Dolaşlar, 24.IV.2015, 925 m, leg. N. Silkin, 2 specimens; Bayramören, exit of Yurtpınar village, 24.IV.2015, 829 m, leg. N. Silkin, 8 specimens; Atkaracalar, Eyüpözü-Hüyük, 25.IV.2015, leg. N. Silkin, 6 specimens; Atkaracalar, entry of Hüyük village, 25.IV.2015, leg. N. Silkin, 2 specimens; Ilgaz, Ödemiş village, 25.IV.2015, 1033 m, leg. N. Silkin, 1 specimen; Kurşunlu, Yeşilören village road, 26.IV.2015, 1027 m, leg. N. Silkin, 1 specimen; Central, Paşaköy, 27.IV.2015, 963 m, leg. N. Silkin, 1 specimen; Central, Dede return, 29.IV.2015, leg. N. Silkin, 2 specimens; Central, Ova village, 29.IV.2015, leg. N. Silkin, 1 specimen; Central, Ova-Kuzuköy, 29.IV.2015, leg. N. Silkin, 6 specimens; Central, Beşdut village, 29.IV.2015, leg. N. Silkin, 1 specimen; Yapraklı, İğdir road, 30.IV.2015, 1068 m, leg. N. Silkin, 6 specimens; Yapraklı, exit of Aşağıöz village, 30.IV.2015, 1139 m, leg. N. Silkin, 1 specimen;

Eldivan, entry of Küçükhacıbey village, 30.IV.2015, 920 m, leg. N. Silkin, 1 specimen; Eldivan, Büyükhacıbey village, 30.IV.2015, 923 m, leg. N. Silkin, 1 specimen; Central, Aşağıçavuş-Yukarıçavuş return, 09.V.2015, 837 m, leg. N. Silkin, 1 specimen; Şabanözü, Bakırlı, 12.V.2015, 1012 m, leg. N. Silkin, 1 specimen; Central, Ovacık-Kuzuköy, 15.V.2015, 919 m, leg. N. Silkin, 1 specimen; Central, Alaçatı, 15.V.2015, 870 m, leg. N. Silkin, 1 specimen; **Kayseri prov.:** İncesu, Kızılören, 13.VII.2016, 1965 m, leg. D. Şahin, 1 specimen; **Konya prov.:** Çumra, İnli village, 04.V.1983, leg. Ş. Gür, 1 specimen; **Şanlıurfa prov.:** Akçakale road, Talat Demirören research station, 30.IV.2015, leg. D. Şahin & C. Yetkin, 6 specimens. ***Remarks:*** The species is a new record to Çankırı and Şanlıurfa provinces for Turkey.

Phyllotreta cruciferae (Goeze, 1777)

Chrysomela cruciferae Goeze, 1777: Ent. Beitr., 1: 312
Altica brassicae Geoffroy, 1785: Ent. Par., p. 98
Altica hortensis Olivier, 1789: Entom., 1: 108
Haltica obscurella Illiger, 1807: Mag. Ins., 6: 154
Haltica nigroaenea Stephens, 1831: Ill. Brit. Ent., p. 298
Haltica elongata Stephens, 1835: Ill. Brit. Ent., p. 423
Altica poeciloceras Comolli, 1837: Col. nov. Prov. Novoc., p. 48.
Haltica punctipennis Weidenbach, 1859: *Ber.* Naturhist. *Ver. Augsburg, 1859: 85*
Phyllotreta colorea Foudras, 1860: Ann. Soc. Linn. Lyon (N. S.), 6: 370
Phyllotreta columbiana Chittenden, 1927: Ent. Amer., 8: 46

This species is known from Adana, Amasya, Ankara, Bilecik, Bursa, Burdur, Çankırı, Çorum, Edirne, Erzurum, Eskişehir, Isparta, İzmir, Kayseri, Konya, Manisa, Niğde, Tokat and Trabzon provinces in Turkey. It is distributed in Europe (AL AU BH BU BY CR CZ DE FR GB GE GR HU IT LA LS LT LU MA MC MD NL PL PT RO RU SK SL SP SV SZ TR UK YU), North Africa (AG EG MO TU), Asia (AB AF CY GG IN IS JA JO KI KZ MG PA SY TD TR "India"), Afrotropical region and introduced to Nearctic region. ***Material examined:*** **Ankara prov.:** Altındağ, Peçenek, 16.V.1990, leg. M. Aydemir, 1 specimen; between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 2 specimens; Nallıhan, Davutoğlan, 16.IV.2014, 474 m, leg. D. Şahin, 9 specimens; Beypazarı, Kayabükü, 16.IV.2014, 493 m, leg. D. Şahin, 1 specimen; Sincan, Yenikent, 28.IV.2014, 479 m, leg. D. Şahin, 1 specimen; Nallıhan, Davutoğlan, 28.IV.2014, 474 m, leg. D. Şahin, 4 specimens; Haymana, Soğulca, 22.V.2014, 994 m, leg. D. Şahin, 1 specimen; Beypazarı, Dibecik, 29.V.2014, 531 m, leg. D. Şahin, 1 specimen; Ayaş, Sinanlı, 02.VII.2014, 787 m, leg. D. Şahin, 1 specimen; Beypazarı: Akkaya, 22.IX.2014, 563 m, leg. D. Şahin, 39 specimens; Nallıhan, Davutoğlan, 23.IX.2014, 474 m, leg. D. Şahin, 10 specimens; Nallıhan, Akçabayır, 23.IX.2014, 474 m, leg. D. Şahin, 21 specimens; Çubuk, 18.IV.2014, 978 m, leg. D. Şahin, 2 specimens; Sincan, Yenikent, 07.V.2014, 792 m, leg. D. Şahin, 1 specimen; Nallıhan, Davutoğlan, 05.V.2015, 474 m, leg. D. Şahin, 3 specimens; Haymana, Soğulca, 07.V.2015, 948 m, leg. D. Şahin, 1 specimen; Haymana, Soğulca, 02.VI.2015, 948 m, leg. D. Şahin, 2 specimens; Sincan, Malıköy, 02.VI.2015, 721 m, leg. D. Şahin, 13 specimens; Kızılcahamam, Akdoğan, 22.VI.2015, 1031 m, leg. D. Şahin, 1 specimen; Haymana, 07.VII.2015, 1025 m, leg. D. Şahin, 1 specimen; Polatlı, Yassıhöyük, 11.VIII.2015, 696 m, leg. D. Şahin, 1 specimen; Beypazarı, Hacıkara, 13.VIII.2015, 672 m, leg. D. Şahin, 2 specimens; Beypazarı, Dibecik, 13.VIII.2015, 537 m, leg. D. Şahin, 2 specimens; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, leg. D. Şahin, 1 specimen; Haymana, Soğulca, 17.VIII.2015, 930 m, leg. D. Şahin, 1 specimen; Kazan, Cimşit, 15.IX.2015, 857 m, leg. D. Şahin, 2 specimens; Şereflikoçhisar, Deliller, 27.VI.2016, 1250 m, leg. D. Şahin, 1 specimen; Sincan, 17.VIII.2016, 842 m, leg. A. Barış, 11 specimens; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 2 specimens; Dallıca, 17.VI.2016, 97 m, leg. A. Barış, 1 specimen; **Çankırı prov.:** Eldivan, entry of Eldivan, 23.IV.2013, 922 m, N. Silkin, 1 specimen; Korgun, 21-23.IV.2013, 21.V.2014, 837-1283 m, leg. N. Silkin, 8 specimens; Kurşunlu, 23.IV.2013, 1126 m, leg. N. Silkin, 2 specimens; Eldivan, 23.IV.2013, 09.VIII.2014, 854-1196 m, leg. N. Silkin, 7 specimens; Orta, Elden plateau, 21.V.2014, 1487 m, N. Silkin, 1 specimen; Orta, 24.IV.2013, 20-22.V.2014, 1227-1602 m, leg. N. Silkin, 13 specimens; Ilgaz, 25-26.VII.2013, 18.VII.2014, 902-1230 m, leg. N. Silkin, 4 specimens; Kızılırmak, 25.IV.2014, 557 m, leg. N. Silkin, 1 specimen; Çerkeş, 27.IV.2014, 626 m, leg. N. Silkin, 2 specimens; Central, 15.VII.2014, 826 m, leg. N. Silkin, 1 specimen; **Isparta prov.:** Yalvaç, 15.IV.1983, *Triticum,* leg. M. Kaya, 1 specimen; **Kayseri prov.:** Yeşilhisar, Güzelöz,

25.VI.1997, 1320 m, leg. H. Özdikmen, 1 specimen; Melikgazi, Sarımsaklı, 23.VI.2016, 1222 m, leg. D. Şahin, 6 specimens; **Zonguldak prov.:** Devrek, Yılanlıca, 02.VI.2016, 124 m, leg. C. Yücel, 15 specimens; Beycuma, Yörükler, 02.VI.2016, 232 m, leg. C. Yücel, 2 specimens. ***Remarks:*** The species is a new record to Bartın and Zonguldak provinces for Turkey.

Phyllotreta dacica Heikertinger, 1941

Phyllotreta dacica Heikertinger, 1941: Koleop. Rund., 27: 83

This species is known from Isparta and Konya provinces in Turkey. It is distributed in Europe (BH BU CR RO UK YU) and Asia (AB TR).

Phyllotreta diademata Foudras, 1860

Phyllotreta diademata Foudras, 1860: Ann. Soc. Linn. Lyon (N. S.), p. 369

This species is known from Adana, Aksaray, Ankara, Antalya, Edirne, Erzincan, Erzurum, Eskişehir, Isparta, Kocaeli and Konya provinces in Turkey. It is distributed in Europe (AL AU BE BH BU CR CZ FR GB GE GR HU IT LU MC NL PL RO RU SK SL SP SV SZ TR UK YU) and Asia (AB AF GG IN IQ SD SU TR "Turkestan"). ***Material examined:*** **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 11 specimens. ***Remarks:*** The species is a new record to Bartın province for Turkey.

Phyllotreta egridirensis Gruev & Kasap, 1985

Phyllotreta egridirensis Gruev & Kasap, 1985: Deutsch. Ent. Zeitschr., N. F., 32: 60

This species is known from Adana, Antalya, Isparta and Konya provinces in Turkey. It is distributed in Asia (IN TR).

Phyllotreta erysimi erysimi Weise, 1900

Phyllotreta erysimi Weise, 1900: Deutsch. Ent. Zeitschr., 1900: 138

This species is represented only by the nominotypical subspecies in Turkey. It is known from Ankara, Antalya, Bayburt, Erzurum, Isparta, Konya, Manisa, Samsun, Thrace, Trabzon provinces in Turkey. It is distributed in Europe (BU GR MC RO RU TR UK YU) and Asia (AB AF IN IS KI KZ MG SY TD TM TR UZ). ***Material examined:*** **Ankara prov.:** Çubuk, Güldarbı, 16.V.1990, leg. M. Aydemir, 1 specimen; Çubuk, Sarıkoz, 16.V.1990, leg. M. Aydemir, 1 specimen; Temelli, 08.VIII.1990, leg. M. Aydemir, 1 specimen; between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 2 specimens; Sincan, Yenikent, 28.IV.2014, 479 m, leg. D. Şahin, 1 specimen; Nallıhan, Davutoğlan, 23.IX.2014, leg. D. Şahin, 1 specimen; **Bartın prov.:** Karasu, 12.V.2015, leg. D. Şahin, 4 specimens; **Çankırı prov.:** Central, Ova-Kuzuköy, 29.IV.2015, leg. N. Silkin, 1 specimen; Central, Kuzuköy-Çırçır villages, 29.IV.2015, leg. N. Silkin, 1 specimen; Eldivan, entry of Küçükhacıbey village, 30.IV.2015, 920 m, leg. N. Silkin, 2 specimens; Central, Cırcır, 15.V.2015, 798 m, leg. N. Silkin, 1 specimen; **Kayseri prov.:** Kocasinan, Ebiç, 23.VI.2016, 1053 m, leg. D. Şahin, 2 specimens; Kocasinan, Kalkancık, 23.VI.2016, 1111 m, leg. D. Şahin, 2 specimens; Kocasinan, Yuvalı, 24.VI.2016, 1115 m, leg. D. Şahin, 6 specimens; Tomarza, Köprübaşı, 12.VII.2016, 1350 m, leg. D. Şahin, 1 specimen; Yahyalı, Sarıoğlan, 14.VII.2016, 1120 m, leg. D. Şahin, 19 specimens. ***Remarks:*** The species is a new record to Bartın, Çankırı and Kayseri provinces for Turkey.

Phyllotreta fallaciosa Heikertinger, 1941

Phyllotreta fallaciosa Heikertinger, 1941: Koleop. Rund., 27: 76

This species is known only from Niğde province in Turkey. It is distributed in Europe (FR GR IT SP), North Africa (AG MO) and Asia (CY IN IS JO TR). ***Material examined:*** **Ankara prov.:** Kızılcahamam, Akdoğan, 22.VI.2015, 1031 m, leg. D. Şahin, 2 specimens; Polatlı, Yassıhöyük, 11.VIII.2015, 696 m, leg. D. Şahin, 2 specimens; Polatlı, Beypazarı, Hacıkara, 13.VIII.2015, 672 m, leg. D. Şahin, 1 specimen; Haymana, Soğulca, 17.VIII.2015, 930 m, leg. D. Şahin, 2 specimens; Şereflikoçhisar, Deliller, 27.VI.2016, 1267 m, leg. D. Şahin, 2 specimens; **Kayseri prov.:** Melikgazi, Sarımsaklı, 23.VI.2016, 1222 m, leg. D.

Şahin, 6 specimens; Kocasinan, Ebiç, 23.VI.2016, 1053 m, leg. D. Şahin, 1 specimen; Kocasinan, Yuvalı, 24.VI.2016, 1115 m, leg. D. Şahin, 1 specimen; Tomarza, Böke, 12.VII.2016, 1343 m, leg. D. Şahin, 2 specimens; Kocasinan, Çavuşağa, 14.VII.2016, 1152 m, leg. D. Şahin, 1 specimen; Yahyalı, Sarıoğlan, 14.VII.2016, 1120 m, leg. D. Şahin, 2 specimens. ***Remarks:*** The species is a new record to Ankara and Kayseri provinces for Turkey.

Phyllotreta fornuseki Cizek, 2003

Phyllotreta fornuseki Cizek, 2003: Klapalekiana, 39: 63

This species is known only from Isparta province in Turkey. It is distributed in Europe (CZ SK) and Asia (TR).

Phyllotreta ganglbaueri Heikertinger, 1909

Phyllotreta ganglbaueri Heikertinger, 1909: Verh. zool.–bot. Ges. Wien, 59: 290

This species is known from Antalya and Isparta provinces in Turkey. It is distributed in Europe (AU BH BU CR CZ FR IT PT RO SL SP SZ UK YU) and Asia (TR).

Phyllotreta judaea Pic, 1901

Phyllotreta judaea Pic, 1901: L'Echange, 17: 27

This species is known from Isparta and İzmir provinces in Turkey. It is distributed in Europe (BU SK) and Asia (AR IN IS JO TR).

Phyllotreta lativittata Kutschera, 1860

Phyllotreta lativittata Kutschera, 1860: Wien. Ent. Monatsch., 4: 307
Phyllotreta orientalis Baly, 1877: Trans. Ent. Soc. Lond., 1877: 178
Phyllotreta ruficollis Weise, 1888: Ins. Deutsch. Col. VI,. p. 859
Phyllotreta iris Reitter, 1891: Deutsch. Ent. Zeitschr., 1891: 35.
Phyllotreta rubrithorax Pic, 1900: L'Echange, 16: 80
Phyllotreta bisbinotata Pic, 1909: L'Echange, 25: 146
Phyllotreta ininterrupta Pic, 1909: L'Echange, 25: 156

This species is known from Erzurum, İzmir and Kars provinces in Turkey. It is distributed in Europe (GR IT MA) and Asia (AB AF AR CY IN IQ IS JO KI KZ LE OM SY TD TM TR UZ XIN). ***Material examined:*** **Bartın prov.:** Dallıca, 17.VI.2016, 97 m, leg. A. Barış, 1 specimen; **Zonguldak prov.:** Devrek, Yılanlıca, 02.VI.2016, 124 m, leg. C. Yücel, 2 specimens. ***Remarks:*** The species is a new record to Bartın and Zonguldak provinces for Turkey.

Phyllotreta lorestanica Warchałowski, 1973

Phyllotreta lorestanica Warchałowski, 1973: Pol. Pis. Ent., Wrocław, 43: 664

This species is known from Burdur and Erzurum provinces in Turkey. It is distributed in Asia (IN TR).

Phyllotreta maculicornis Pic, 1906

Phyllotreta maculicornis Pic, 1906: L'Echange, 22: 35

This species is known from Antalya, Isparta, Konya and Niğde provinces in Turkey. It is distributed in Asia (SY TR). ***Material examined:*** **Isparta prov.:** Gelendost, 11.V.1983, *Triticum,* leg. M. Kaya, 1 specimen; **Niğde prov.:** Altunhisar, Yeşilyurt, 29.VII.1997, leg. H. Özdikmen, 1 specimen.

Phyllotreta nemorum (Linnaeus, 1758)

Chrysomela nemorum Linnaeus, 1758: Syst. Nat., ed. 10: 373
Phyllotreta theresae Pic, 1909: L'Echange, 25: 157.
Phyllotreta künnemanni Reitter, 1905: Wien. Ent. Zeit., 24: 251

This species is known from Ankara, Bayburt, Bilecik, Bolu, Çorum, Edirne, Erzincan, Erzurum, Eskişehir, Isparta, İstanbul and Sivas provinces in Turkey. It is distributed in Europe (AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IT LA LS LT LU MC MD NL NR NT PL RO SK SL SP ST SV SZ TR UK YU), Asia (AB CY ES FE GG IN IS KZ MG TD TR UZ WS "Korea") and introduced to Australian region. ***Material examined:*** **Bartın prov.:** Karasu, 12.V.2015, leg. D. Şahin, 4 specimens; Güzelcehisar, 12.V.2015, leg. D. Şahin, 1 specimen; **Bolu prov.:** Akçakoca, 03.VIII.1999, 400 m, *Corylus,* leg. M. Özdemir, 1 specimen; **Çankırı prov.:** Orta, 24.IV.2013, 21.V.2014, 1349-1487 m, leg. N. Silkin, 3 specimens. ***Remarks:*** The species is a new record to Bartın and Çankırı provinces for Turkey.

Phyllotreta nigripes nigripes (Fabricius, 1775)

Altica nigripes Fabricius, 1775: Syst. Ent., p. 113
Chrysomela lens Thunberg, 1784: Nova Acta Reg. Soc. Sci. Upsaliensis, 4: 13
Altica cruciferum Gmelin, 1790: Caroli a Linné Systema Naturae..., p. 1699
Haltica lepidii Koch, 1803: Ent. Hefte, 2: 64.
Phyllotreta arabidis Hoffmann, 1953: Rev. fr. d'Ent., 20: 187

This species is represented only by the nominotypical subspecies in Turkey. It is known from Adana, Ankara, Antalya, Bayburt, Bilecik, Edirne, Erzincan, Erzurum, Eskişehir, Hatay, Iğdır, Isparta, Kars, Kayseri, Konya, Manisa, Mersin, Sivas and Yozgat provinces in Turkey. It is distributed in Europe (AL AN AU BE BH BU BY CR CZ DE EN FI FR GB GE GR HU IT LA LT LU MC MD NL PL RO RU SK SL SP SV SZ TR UK YU), North Africa (AG CI EG MO TU) and Asia (AB AF CY IN IS KI KZ SY TD TR UZ). ***Material examined:*** **Afyon prov.:** Central, Gebeciler, 27.VII.1983, leg. T. Davarcı, 28 specimens; Bahçecik, 28.VII.1983, leg. T. Davarcı, 1 specimen; **Ankara prov.:** 10.V.1966, leg. E. Gülseren, 4 specimens; Atatürk Forest Farm, 21.VII.1980, leg. Y. Özdemir, 1 specimen; Ayaş, İlyakut, 31.VII.1980, leg. Y. Özdemir, 8 specimens; Beynam Forest, 16.VIII.1982, leg. Y. Özdemir, 16 specimens; Ayaş, Bayram, 16.VIII.1982, leg. Y. Özdemir, 8 specimens; Şereflikoçhisar, 25.VII.1983, leg. A. Kalkandelen, 3 specimens; Keskin, Central, 15.VII.1985, 1 specimen; Kalecik, Aktepe, 17.VII.1985, leg. H. Zeki, 1 specimen; Kalecik, Hacıköy, 17.VII.1985, leg. H. Zeki, 9 specimens; Polatlı, Düç, 08.V.1990 and 30.VII.1990, leg. M. Aydemir, 13 specimens; Sincan, İlyakut, 09.V.1990, leg. M. Aydemir, 15 specimens; Ayaş, Başbereket, 09.V.1990, leg. M. Aydemir, 2 specimens; Ayaş, Bayram, 09.V.1990, leg. M. Aydemir, 5 specimens; Çubuk, Sarıkoz, 16.V.1990, leg. M. Aydemir, 1 specimen; Çubuk, Sünlü, 16.V.1990, leg. M. Aydemir, 2 specimens; Ballıkuyumcu, 08.VIII.1990, leg. M. Aydemir, 2 specimens; Temelli, 08.VIII.1990, leg. M. Aydemir, 3 specimens; Kızılcahamam, Güvem, 28.V.1997, 1100 m, leg. H. Özdikmen, 1 specimen; Kızılcahamam, Yukarı Çanlı, 28.V.1997, 1250 m, leg. H. Özdikmen, 3 specimens; Kızılcahamam, Aköz village, 28.V.1997, 1150 m, leg. H. Özdikmen, 3 specimens; between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 58 specimens; Nallıhan, Davutoğlan, 16.IV.2014, 474 m, leg. D. Şahin, 2 specimens; Beypazarı, Kayabükü, 16.IV.2014, 486 m, leg. D. Şahin, 31 specimens; Beypazarı, Kayabükü, 16.IV.2014, 627 m, leg. D. Şahin, 4 specimens; Nallıhan, Davutoğlan, 28.IV.2014, 474 m, leg. D. Şahin, 2 specimens; Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 2 specimens; Haymana, Oyaca, 07.V.2015, 963 m, leg. D. Şahin, 1 specimen; Ayaş, Feruz, 29.V.2014, 1084 m, leg. D. Şahin, 4 specimens; Akyurt, Yeşiltepe, 30.VI.2014, 625 m, leg. D. Şahin, 1 specimens; Çubuk, 18.IV.2014, 978 m, leg. D. Şahin, 1 specimen; Ayaş, Feruz, 29.V.2014, 1084 m, leg. D. Şahin, 1 specimen; Nallıhan, Davutoğlan, 05.V.2015, 474 m, leg. D. Şahin, 3 specimens; Haymana, Soğulca, 07.V.2015, 948 m, leg. D. Şahin, 105 specimens; Sincan, Malıköy, 02.VI.2015, 721 m, leg. D. Şahin, 2 specimens; Haymana, 07.VII.2015, 1025 m, leg. D. Şahin, 12 specimens; Polatlı, Yassıhöyük, 11.VIII.2015, 696 m, leg. D. Şahin, 2 specimens; Polatlı, Beylikköprü, 11.VI.2015, 708 m, leg. D. Şahin, 2 specimens; Ayaş, Beypazarı road, 13.VIII.2015, 711 m, leg. D. Şahin, 5 specimens; Ayaş, Akkaya, 13.VIII.2015, 557 m, leg. D. Şahin, 2 specimens; Ayaş, Feruz, 13.VIII.2015, 1075 m, leg. D. Şahin, 8 specimens; Kalecik, 14.VIII.2015, 730 m, leg. D. Şahin, 4 specimens; Kalecik, Eskiköy, 14.08.2015, 1157 m, leg. D. Şahin, 4 specimens; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, leg. D. Şahin, 5 specimens; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, 1 specimens; Akyurt, Yeşiltepe, 14.VIII.2015, 1063 m, 1 specimens; Haymana, Soğulca, 17.VIII.2015, 930 m, leg. D. Şahin, 2 specimens; Kazan, Cimşit, 15.IX.2015, 857 m, leg. D. Şahin, 1 specimen; Şereflikoçhisar, Deliller, 27.VI.2016,

1267 m, leg. D. Şahin, 12 specimens; Çamlıdere, Çamkoru, 29.VII.2016, 1381 m, leg. D. Şahin, 1 specimen; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 1 specimen; **Bolu prov.:** Dörtdivan, 05-06.VII.1983, leg. S. Bilgitekin, 2 specimens; **Çankırı prov.:** Korgun, Çankırı-Korgun road, Aşağıçavuş village, 21.IV.2013, 837 m, leg. N. Silkin, 3 specimens; Korgun, 21-23.IV.2013, 837-1031 m, leg. N. Silkin, 18 specimens; Korgun, between Karatekin-Yolkaya village, 22.IV.2013, 957 m, leg. N. Silkin, 11 specimens; Korgun, Kayıçivi-Ildızım village return, 22.IV.2013, 982 m, leg. N. Silkin, 1 specimen; Korgun, exit of Bugay village, 22.IV.2013, 927 m, leg. N. Silkin, 1 specimen; Ilgaz, exit of Ilgaz-Gircen, 22.IV.2013, 887 m, leg. N. Silkin, 1 specimen; Ilgaz, 22.IV.2013, 25.VII.2013, 19.VII.2014, 885-1101 m, leg. N. Silkin, 5 specimens; Korgun, entry of Ildızım village, 23.IV.2013, 1031 m, leg. N. Silkin, 10 specimens; Eldivan, Maruf village, 23.IV.2013, 1196 m, leg. N. Silkin, 2 specimens; Eldivan, Akçalı Çukuröz return, 23.IV.2013, 1068 m, leg. N. Silkin, 1 specimen; Eldivan, between Akçalı-Çiftlikköy, 23.IV.2013, 1039 m, leg. N. Silkin, 4 specimens; Eldivan, 23.IV.2013, 922 m, leg. N. Silkin, 1 specimen; Eldivan, Akbulut, 23.IV.2013, 1196 m, leg. N. Silkin, 1 specimen; Eldivan, 23-24.IV.2013, 1039-1196 m, leg. N. Silkin, 8 specimens; Eldivan, entry of Hisarcıkkayı village, 24.IV.2013, 1084 m, leg. N. Silkin, 1 specimen; Orta, Yenilce village, 24.IV.2013, 1349 m, leg. N. Silkin, 13 specimens; Orta, 24.IV.2013, 24.V.2014, 1227-1602 m, leg. N. Silkin, 24 specimens; Şabanözü, 24.IV.2013, 1141 m, leg. N. Silkin, 2 specimens; Şabanözü, between Şabanözü-Eldivan road, 24.IV.2013, 1141 m, leg. N. Silkin, 2 specimens; Ilgaz, entry of Yuvasaray village, 25.VII.2013, 902 m, leg. N. Silkin, 1 specimen; Ilgaz, exit of Yuvasaray village, 25.VII.2013, 1101 m, leg. N. Silkin, 2 specimens; Ilgaz, entry of Eskikıymık village, 26.VII.2013, 1230 m, leg. N. Silkin, 2 specimens; Çerkeş, between Türbaşı-Dağçukurören village, 29.VIII.2013, 1271 m, leg. N. Silkin, 2 specimens; Kızılırmak, Karamürsel village return, 24.IV.2014, 550 m, leg. N. Silkin, 2 specimens; Central, Balıbağı plateau, 25.IV.2014, 774 m, leg. N. Silkin, 10 specimens; Kızılırmak, 24-25.IV.2014, 12.VII.-11.VIII.2014, 547-702 m, leg. N. Silkin, 7 specimens; Central, between Tuzlu-Dede village, 26.IV.2014, 874 m, leg. N. Silkin, 2 specimens; Central, 25-26.IV.2014, 15.VII.2014, 704-874 m, leg. N. Silkin, 16 specimens; Central, Haydarköy return, Alaçat village, 26.IV.2014, 704 m, leg. N. Silkin, 1 specimen; Central, Danabaşı village, 26.IV.2014, 724 m, leg. N. Silkin, 1 specimen; Orta, entry of Sakarcaören village, 20.V.2014, 1305 m, leg. N. Silkin, 1 specimen; Orta, exit of Sakaeli, 21.V.2014, 1227 m, leg. N. Silkin, 3 specimens; Orta, Elden village, 21.V.2014, 1446 m, leg. N. Silkin, 1 specimen; Orta, entry of Dodurga, 22.V.2014, 1351 m, leg. N. Silkin, 1 specimen; Orta, Kayıören return, 22.V.2014, 1602 m, leg. N. Silkin, 6 specimens; Orta, entry of İncecik village, 22.V.2014, 1600 m, leg. N. Silkin, 8 specimens; Orta, between Bulduk-Yenice, 24.V.2014, 1400 m, leg. N. Silkin, 1 specimen; Orta, İnkılap village, 24.V.2014, 1290 m, leg. N. Silkin, 1 specimen; Central, Aşağıçavuş return, 15.VII.2014, 826 m, leg. N. Silkin, 4 specimens; Ilgaz, entry of Gaziler, 19.VII.2014, 885 m, leg. N. Silkin, 2 specimens; Kızılırmak, Yeniyapan village, 11.VIII.2014, 702 m, leg. N. Silkin, 1 specimen; Korgun, exit of Buğay, 16.IV.2015, leg. N. Silkin, 1 specimen; Kurşunlu, Kapaklı-Taşkaracalar, 17.IV.2015, 1318 m, leg. N. Silkin, 1 specimen; Orta, entry of Doğanlar village, 17.IV.2015, 1450 m, leg. N. Silkin, 3 specimens; Orta, exit of Sancar village, 17.IV.2015, leg. N. Silkin, 4 specimens; Çerkeş, 1 km to Kocamustafa village, 19.IV.2015, 1182 m, leg. N. Silkin, 11 specimens; Çerkeş, Yalıözü-Ova, 19.IV.2015, 1154 m, leg. N. Silkin, 1 specimen; Çerkeş, entry of Aliözü village, 20.IV.2015, 1221 m, leg. N. Silkin, 3 specimens; Çerkeş, Çaylı village, 20.IV.2015, 931 m, leg. N. Silkin, 1 specimen; Atkaracalar, Zerdeş return, 21.IV.2015, 1212 m, leg. N. Silkin, 2 specimens; Bayramören, entry of Üçgazi village, 24.IV.2015, 847 m, leg. N. Silkin, 1 specimen; Bayramören, Erenler-Dolaşlar, 24.IV.2015, 925 m, leg. N. Silkin, 4 specimens; Bayramören, exit of Yurtpınar village, 24.IV.2015, 829 m, leg. N. Silkin, 8 specimens; Atkaracalar, entry of Eyüpözü village, 25.IV.2015, leg. N. Silkin, 1 specimen; Atkaracalar, Eyüpözü-Hüyük, 25.IV.2015, leg. N. Silkin, 2 specimens; Kurşunlu, exit of Çaylıca village, 25.IV.2015, leg. N. Silkin, 2 specimens; Ilgaz, Ödemiş village, 25.IV.2015, 1033 m, leg. N. Silkin, 1 specimen; Ilgaz, Ödemiş-Çaltıpınar, 25.IV.2015, 971 m, leg. N. Silkin, 1 specimen; Kurşunlu, Yeşilören village road, 26.IV.2015, 1027 m, leg. N. Silkin, 12 specimens; Ilgaz, exit of Belören village, 26.IV.2015, 923 m, leg. N. Silkin, 1 specimen; Ilgaz, Candere-Bükcük villages, 26.IV.2015, 874 m, leg. N. Silkin, 27 specimens; Ilgaz, entry of Musa village, 27.IV.2015, 1013 m, leg. N. Silkin, 2 specimens; Ilgaz, Ovaç village, 27.IV.2015, 1099 m, leg. N. Silkin, 1 specimen; Central, Akçavalı-Başeğmez villages' road, 27.IV.2015, leg. N. Silkin, 2 specimens; Central, entry of Başeğmez village, 27.IV.2015, 870 m, leg. N. Silkin, 1 specimen; Yapraklı, Yenice-

Yüklü, 27.IV.2015, 926 m, leg. N. Silkin, 16 specimens; Central, Dede return, 29.IV.2015, leg. N. Silkin, 5 specimens; Central, exit of Küçüklü village, 29.IV.2015, leg. N. Silkin, 1 specimen; Central, Ova village, 29.IV.2015, leg. N. Silkin, 10 specimens; Central, Ova-Kuzuköy, 29.IV.2015, leg. N. Silkin, 2 specimens; Central, Kuzuköy return, 29.IV.2015, leg. N. Silkin, 1 specimen; Central, Kuzuköy-Çırçır villages, 29.IV.2015, leg. N. Silkin, 24 specimens; Central, entry of Ünür, 29.IV.2015, 952 m, leg. N. Silkin, 2 specimens; Central, Çağbeyi-Satıyüzü villages, 29.IV.2015, 952 m, leg. N. Silkin, 1 specimen; Central, Beşdut village, 29.IV.2015, leg. N. Silkin, 2 specimens; Yapraklı, Gürmeç-Kayacık, 29.IV.2015, leg. N. Silkin, 5 specimens; Yapraklı, İğdir road, 30.IV.2015, 1068 m, leg. N. Silkin, 7 specimens; Yapraklı, exit of Aşağıöz village, 30.IV.2015, 1139 m, leg. N. Silkin, 6 specimens; Yapraklı, Bademçay village return, 30.IV.2015, leg. N. Silkin, 11 specimens; Yapraklı, Ayva village road, 30.IV.2015, 1256 m, leg. N. Silkin, 14 specimens; Eldivan, Büyükhacıbey village, 30.IV.2015, 923 m, leg. N. Silkin, 3 specimens; Central, Aşağıçavuş-Yukarıçavuş return, 09.V.2015, 837 m, leg. N. Silkin, 13 specimens; Central, Yukarıçavuş-Paşaköy, 09.V.2015, 953 m, leg. N. Silkin, 6 specimens; Kurşunlu, 4 km to Dağören, 10.V.2015, 1110 m, leg. N. Silkin, 1 specimen; Central, Kılıççarkı, 13.V.2015, 737 m, leg. N. Silkin, 4 specimens; Eldivan, Akbulut village, 13.V.2015, 1314 m, leg. N. Silkin, 1 specimen; Central, Balıbağı village, 15.V.2015, 1037 m, leg. N. Silkin, 1 specimen; Central, Ovacık-Kuzuköy, 15.V.2015, 919 m, leg. N. Silkin, 13 specimens; Central, entry of Kuzuköy, 15.V.2015, 708 m, leg. N. Silkin, 4 specimens; Central, Alaçatı, 15.V.2015, 870 m, leg. N. Silkin, 2 specimens; Central, Altınlı, 15.V.2015, 725 m, leg. N. Silkin, 2 specimens; Central, Cırcır, 15.V.2015, 798 m, leg. N. Silkin, 7 specimens; Central, entry of Karadayı, 16.V.2015, 856 m, leg. N. Silkin, 1 specimen; Yapraklı, Yamaçbağı-Söğütlü, 26.V.2015, 1125 m, leg. N. Silkin, 2 specimens; Ilgaz, exit of Belören, 27.V.2015, 903 m, leg. N. Silkin, 4 specimens; Ilgaz, Belören-Şeyhyunus, 27.V.2015, 889 m, leg. N. Silkin, 1 specimen; Çerkeş, Akbaş-Kuzuören-Çayı-Kabak-Yıprak villages return, 22.VI.2015, 1257 m, leg. N. Silkin, 1 specimen; **Eskişehir prov.:** Seyitgazi, Central, 11.VII.1973, *Triticum*, leg. G. Altınayar, 1 specimen; Central, Geçitkuşağı Institute, 12.V.2016, leg. C. Yücel, 1 specimen; **Kayseri prov.:** İncesu, Örenşehir, 20.VI.2016, 1034 m, leg. D. Şahin, 3 specimens; İncesu, Semerkent, 20.VI.2016, 1090 m, leg. D. Şahin, 1 specimen; Develi, Çölgölü, 20.VI.2016, 1078 m, leg. D. Şahin, 1 specimen; Develi, Yahyalı road, 21.VI.2016, 1164 m, leg. D. Şahin, 2 specimens; Yahyalı, Kirazlı, 22.VI.2016, 1408 m, leg. D. Şahin, 1 specimen; Melikgazi, Sarımsaklı, 23.VI.2016, 1220 m, leg. D. Şahin, 5 specimens; Kocasinan, Ebiç, 23.VI.2016, 1053 m, leg. D. Şahin, 6 specimens; Kocasinan, Yuvalı, 24.VI.2016, 1115 m, leg. D. Şahin, 5 specimens; Yeşilhisar, Kavak road, 11.VII.2016, 1460 m, leg. D. Şahin, 2 specimens; Tomarza, Köprübaşı, 12.VII.2016, 1350 m, leg. D. Şahin, 3 specimens; Tomarza, Şiraz village, 12.VII.2016, 1438 m, leg. D. Şahin, 12 specimens; Tomarza, Böke, 12.VII.2016, 1343 m, leg. D. Şahin, 1 specimen; Talas, Ardıç, 12.VII.2016, 1549 m, leg. D. Şahin, 1 specimen; İncesu, Kızılören, 13.VII.2016, 1965 m, leg. D. Şahin, 38 specimens; Yahyalı, Sarıoğlan, 14.VII.2016, 1120 m, leg. D. Şahin, 214 specimens; Kocasinan, Çavuşağa, 14.VII.2016, 1152 m, leg. D. Şahin, 24 specimens; **Konya prov.:** Göztepe, 08.VII.1986, leg. H. Zeki, 1 specimen; **Mersin prov.:** Mut-Karaman road, 1345m, 02.VI.2001, leg. H. Özdikmen, 1 specimen. ***Remarks:*** The species is a new record to Afyon, Bartın, Bolu and Çankırı provinces for Turkey.

Phyllotreta nodicornis (Marsham, 1802)

Chrysomela nodicornis Marsham, 1802: Ent. Brit., 1: 204
Haltica antennata Koch, 1803: Ent. Hefte, 2: 67
Phyllotreta oncera Maulik, 1926: The Fauna British India, p. 378

This species is known from Ankara, Erzurum, Eskişehir, Isparta, Manisa and Sivas provinces in Turkey. It is distributed in Europe (AU BE BH BU CR CZ FR GB GE HU IT LU NL PL PT RO SK SL SP ST SZ UK YU) and Asia (TR UP). ***Material examined:*** **Ankara prov.:** Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 1 specimen; **Çankırı prov.:** Çerkeş, return of Türbaşı village, 27.IV.2014, 626 m, N. Silkin, 1 specimen; Atkaracalar, Zerdeş return, 21.IV.2015, 1212 m, leg. N. Silkin, 1 specimen; Central, Akçavalı-Başeğmez villages' road, 27.IV.2015, leg. N. Silkin, 1 specimen; Central, entry of Ünür, 29.IV.2015, 952 m, leg. N. Silkin, 2 specimens; Çerkeş, Avşar-Kükürt, 20.VI.2015, 1205 m, leg. N. Silkin, 1 specimen. ***Remarks:*** The species is a new record to Çankırı province for Turkey.

Phyllotreta ochripes (Curtis, 1837)

Haltica horticola C. F. W. Richter, 1820: Suppl. Faun. Ins. Eur. I, p. 8. [DA]
Altica ochripes Curtis, 1837: Brit. Ent., 14: 630
Haltica excisa L. Redtenbacher, 1849: Fauna Austr., p. 532
Phyllotreta caucasica Harold, 1879: Col. Hefte, 16: 231
Phyllotreta cruciata Weise, 1888: Ins. Deutsch. Col., 6: 867
Phyllotreta eximia Guillebeau, 1895: Bull. Soc. Ent. Fr., p. xxvii
Phyllotreta burdigalensis Pic, 1909: L'Echange, 25: 178
Phyllotreta comanensis Pic, 1912: Bull. Soc. Ent. Fr., p. 136
Phyllotreta kerkhoveni Everts, 1919: Ent. Ber., 5: 175

This species is known from Giresun, İstanbul and Niğde provinces in Turkey. It is distributed in Europe (AU BE BH BU BY CR CZ DE FI FR GB GE GR HU IT LA LT LU NL NR PL PT RO RU SK SL SP ST SV SZ TR UK YU) and Asia (AB ES FE IN JA TR). ***Material examined:*** **Niğde prov.:** Exit of Ulukışla, 29.V.2001, 1350 m, leg. H. Özdikmen, 3 specimens; **Zonguldak prov.:** Devrek, Yılanlıca, 02.VI.2016, 124 m, leg. C. Yücel, 6 specimens; Beycuma, Korucuk, 02.VI.2016, 130 m, leg. C. Yücel, 1 specimen. ***Remarks:*** The species is a new record to Zonguldak province for Turkey.

(*) *Phyllotreta oltuensis* Gruev & Aslan, 1998

Phyllotreta oltuensis Gruev & Aslan, 1998: Türk. entomol. derg., 22: 166

This species is known only from Erzurum province in Turkey. It is distributed in Asia (TR).

(*) *Phyllotreta ozbeki* Gruev & Aslan, 1998

Phyllotreta ozbeki Gruev & Aslan, 1998: Türk. entomol. derg., 22: 167

This species is known only from Bayburt province in Turkey. It is distributed in Asia (TR).

Phyllotreta pallidipennis Reitter, 1891

Phyllotreta pallidipennis Reitter, 1891: Deutsch. Ent. Zeitschr., 1891: 34
Phyllotreta dilutipennis Reitter, 1891: Deutsch. Ent. Zeitschr., 1891: 35
Phyllotreta turcmenica Weise, 1900: Deutsch. Ent. Zeitschr., 1900: 138
Phyllotreta schreineri Jakobson, 1916: Rev. Rus. d'Ent., 15: 72

This species is known from Ankara and Kayseri provinces in Turkey. It is distributed in Europe (ST UK) and Asia (AF ES IN KI KZ MG PA TD TM TR UZ XIZ WS). ***Material examined:*** **Ankara prov.:** between Yenikent-Ayaş, 01.V.2003, 1000 m, leg. H. Özdikmen, 5 specimens; **Kayseri prov.:** İncesu, Örenşehir, 20.VI.2016, 1034 m, leg. D. Şahin, 6 specimens; Yeşilhisar, Sultansazlığı, 20.VI.2016, 1070 m, leg. D. Şahin, 1 specimen; Develi, Çölgölü, 20.VI.2016, 1078 m, leg. D. Şahin, 54 specimens; Kocasinan, Kalkancık, 23.VI.2016, 1111 m, leg. D. Şahin, 2 specimens.

Phyllotreta pontoaegeica Gruev, 1982

Phyllotreta pontoaegeica Gruev, 1982: Deuthsch. Ent. Zeitschr., N. F., 29: 99

This species is known from Antalya, Isparta and Mersin provinces in Turkey. It is distributed in Europe (BU GR) and Asia (TR). ***Material examined:*** **Çankırı prov.:** Korgun, 21.IV.2013, 666 m, leg. N. Silkin, 1 specimen; Eldivan, 23.IV.2013, 1196 m, leg. N. Silkin, 3 specimens; Ilgaz, 26.VII.2013, 1230 m, leg. N. Silkin, 2 specimens; Orta, 22.V.2014, 1600 m, leg. N. Silkin, 1 specimen; Şabanözü, 23.V.2014, 1091-1221 m, leg. N. Silkin, 2 specimens. ***Remarks:*** The species is a new record to Çankırı province for Turkey.

Phyllotreta praticola Weise, 1887

Phyllotreta praticola Weise, 1887: Deutsch. Ent. Zeitschr., 31: 333
Phyllotreta fucata Weise, 1890: Wien. Ent. Z., 9: 112

This species is known from Erzurum, İstanbul and Kayseri provinces in Turkey. It is distributed in Europe (ST) and Asia (AB AF ES IN KI KZ MG TD TR UZ WS "India" NW

China").

Phyllotreta procera (Redtenbacher, 1849)

Haltica procera L. Redtenbacher, 1849: Fauna Austr., p. 530
Haltica subtilis Wollaston, 1854: Ins. Maer., p. 441.
Phyllotreta carreti Monnot, 1913: Insecta, 3: 233

This species is known from Adana, Ankara, Antalya, Erzincan, Erzurum, Eskişehir, Isparta and Konya provinces in Turkey. It is distributed in Europe (AN AU BE BH BU CR CZ FR GB GE GR HU IT LU MA MC NL PT RO RU SK SL SP SZ UK YU), North Africa (AG CI MO MR TU), Asia (AB CY GG IN IS JO TD TM TR) and Afrotropical region. ***Material examined:*** **Ankara prov.:** Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 1 specimen; **Çankırı prov.:** Yapraklı, Ayva village road, 30.IV.2015, 1256 m, leg. N. Silkin, 1 specimen. ***Remarks:*** The species is a new record to Çankırı province for Turkey.

Phyllotreta punctulata (Marsham, 1802)

Chrysomela nigroaenea Marsham, 1802: Ent. Brit., p. 197 [DA]
Chrysomela punctulata Marsham, 1802: Ent. Brit., p. 200
Phyllotreta aerea Allard, 1859: Bull. Soc. Ent. Fr., 1859: 100

This species is known from Antalya, Bursa, Burdur, Eskişehir, Giresun, Isparta, İstanbul and Kırklareli provinces in Turkey. It is distributed in Europe (AU BE BH BU CR CZ FR GB GE GR HU IT LU MC MD NL PL PT RO RU SK SL SP ST SZ TR UK YU), North Africa (MO), Asia (AB IS TR) and introduced to Nearctic region. ***Material examined:*** **Ankara prov.:** Haymana, 07.V.2015, 1025 m, leg. D. Şahin, 2 specimens; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 2 specimens; **Çankırı prov.:** Eldivan, 23.IV.2013, 922 m, leg. N. Silkin, 1 specimen; Orta, 24.IV.2013, 20-22.V.2014, 1257-1600 m, leg. N. Silkin, 5 specimens; Şabanözü, 24.IV.2013, 11.VII.2014, 1120-1141 m, leg. N. Silkin, 2 specimens. ***Remarks:*** The species is a new record to Ankara, Bartın and Çankırı provinces for Turkey.

Phyllotreta reitteri Heikertinger, 1911

Phyllotreta reitteri Heikertinger, 1911: Verh. zool.-bot. Ges., 61: 159

This species is known only from Denizli province in Turkey. It is distributed in Europe (UK) and Asia (KZ TR UZ).

Phyllotreta sisymbrii Weise, 1888

Phyllotreta sisymbrii Weise, 1888: Ins. Deutsch. Col., 6: 860

This species is known from Ankara and Erzurum provinces in Turkey. It is distributed in Europe (ST) and Asia (AB AR GG IN SY TR).

Phyllotreta striolata (Illiger, 1803)

Crioceris vittata Fabricius, 1801: Syst. El. I., p. 469 [HN]
Crioceris striolata Illiger, 1803: Mag. Ins., 2: 293
Haltica sinuata L. Redtenbacher, 1849: Fauna Austr., p. 532.
Aphtona strigula Montrouzier, 1864: Ann. Soc. Linn. Lyon (N. S.), 11: 202
Phyllotreta discedens Weise, 1888: Ins. Deutsch. Col., 6: 871
Phyllotreta monticola Weise, 1888: Ins. Deutsch. Col., 6: 871
Phyllotreta lineolata Chittenden, 1927: Ent. Amer., 8: 25
Phyllotreta vernicosa Chittenden, 1927: Ent. Amer., 8: 25
Phyllotreta artivitta Chittenden, 1927: Ent. Amer., 8: 26.

This species is known from Düzce, Edirne and Erzurum provinces in Turkey. It is distributed in Europe (AL AU BE BH BU BY CR CZ DE EN FI FR GB GE GR HU IT LA LS LT LU MC NL NR PL PT RO RU SK SL SP SV SZ TR UK YU), Asia (AB ANH AR FE FUJ GAN GUA GUI GUX HAI HEI HKG HUB JA JIA KZ MG NP SCH SD TAI TR XIZ YUN ZHE "Korea"), Australian and Oriental regions, and introduced to Afrotropical and Nearctic regions. ***Material examined:*** **Düzce prov.:** Akçakoca, Kirazlı, 30.VIII.1988, *Corylus,* leg. Ö. Ataç, 1 specimen; **Zonguldak prov.:** Devrek, Yılanlıca, 02.VI.2016, and 15.VI.2016, 124 m, leg. C. Yücel, 4 specimens. ***Remarks:*** The species is a new record to Zonguldak

province for Turkey.

Phyllotreta tetrastigma (Comolli, 1837)

Altica tetrastigma Comolli, 1837: Col. nov. prov. Novocom., p. 47.

This species is known from Artvin and Erzurum provinces in Turkey. It is distributed in Europe (AU BE BH BU BY CR CZ DE EN FI FR GB GE HU IT LA LS LT LU NL NR PL RO RU SK SL SP SV SZ UK) and Asia (ES TR).

(*) *Phyllotreta toelgi* Heikertinger, 1941

Phyllotreta toelgi Heikertinger, 1941: Koleop. Rund., 27: 104

This species is known from Eskişehir and Ordu provinces in Turkey. It is distributed in Asia (TR). ***Material examined:*** **Ordu prov.:** 15.VII.1965, leg. M. Işık, 1 specimen.

Phyllotreta undulata (Kutschera, 1860)

Phyllotreta undulata Kutschera, 1860: Wien. Ent. Monatschr., 4: 301
Phyllotreta australis Blackburn, 1890: Trans. Roy. Soc. S. Aust., 13: 146
Phyllotreta biinterrupta Pic, 1915: L'Echange, 31: 33
Phyllotreta blackburni Bryant, 1925: Ann. Mag. Nat. Hist., 15: 596
Phyllotreta vittigera Broun, 1893: Man. New Zealand Col., p. 1392

This species is known from Bilecik, Erzurum, Eskişehir and İstanbul provinces in Turkey. It is distributed in Europe (AL AU BE BH BU BY CR CZ DE EN FI FR GB GE GR HU IT LA LS LT LU MC NL NR PL PT RO RU SK SL SP ST SV SZ TR UK YU), North Africa (AG), Asia (AB AR ES FE KI KZ MG TM TR UZ) and introduced to Australian and Nearctic regions. ***Material examined:*** **Ankara prov.:** Nallıhan, Davutoğlan, 05.V.2015, leg. D. Şahin, 1 specimen; Haymana, Soğulca, 07.V.2015, 948 m, leg. D. Şahin, 1 specimen; **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 27 specimens; **Çankırı prov.:** Çerkeş, Kuzözeren village, 19.VIII.2014, 1081 m, leg. N. Silkin, 1 specimen; Yapraklı, Ayva village road, 30.IV.2015, 1256 m, leg. N. Silkin, 1 specimen; **Kayseri prov.:** Tomarza, Böke, 12.VII.2016, 1343 m, leg. D. Şahin, 1 specimen; İncesu, Kızılören, 13.VII.2016, 1965 m, leg. D. Şahin, 2 specimens; Yahyalı, Sarıoğlan, 14.VII.2016, 1120 m, leg. D. Şahin, 2+1 specimens; **Zonguldak prov.:** Devrek, 26.V.2015, leg. C. Yücel, 2 specimens; Devrek, Yassıören, 15.VI.2015, leg. C. Yücel, 16 specimens; Devrek, 20.IV.2016, leg. A. Barış, 6 specimens; Beycuma, Yörükler, 02.VI.2016, 232 m, leg. C. Yücel, 1 specimen; Devrek, Yılanlıca, 02 and 15.VI.2016, 124 m, leg. C. Yücel, 20 specimens. ***Remarks:*** The species is a new record to Ankara, Bartın, Çankırı, Kayseri and Zonguldak provinces for Turkey.

Phyllotreta variipennis variipennis (Boieldieu, 1859)

Haltica variipennis Boieldieu, 1859: Ann. Soc. Ent. Fr., 3, 7: 477
Phyllotreta varians Foudras, 1860: Ann. Soc. Linn. Lyon, (N. S.), 6: 360

This species is represented only by the nominal subspecies in Turkey. It is known from Ankara, Eskişehir, Isparta, İstanbul and İzmir provinces in Turkey. It is distributed in Europe (BH BU CR FR GR IT MA MC PT SL SP SZ TR YU), North Africa (AG CI MO TU) and Asia (CY IN IQ IS TR). ***Material examined:*** **Bartın prov.:** Güzelcehisar, 12.V.2015, leg. D. Şahin, 11 specimens; Dallıca, 17.VI.2016, 97 m, leg. A. Barış, 2 specimens; **Karaman prov.:** 2015, leg. D. Şahin, 9 specimens; **Zonguldak prov.:** Devrek, 26.V.2015, leg. C. Yücel, 4 specimens; Devrek, Yassıören, 15.VI.2015, leg. C. Yücel, 12 specimens; Devrek, 20.IV.2016, leg. A. Barış, 3 specimens; Yılanlıca, 02.VI.2016, 124 m, leg. C. Yücel, 28 specimens; Beycuma, Korucuk, 02.VI.2016, 130 m, leg. C. Yücel, 11 specimens; Beycuma, Yörükler, 02.VI.2016, 232 m, leg. C. Yücel, 2 specimens. ***Remarks:*** The species is a new record to Bartın, Karaman and Zonguldak provinces for Turkey.

Phyllotreta vilis Weise, 1888

Phyllotreta vilis Weise, 1888: Ins. Deutsch. Col., 6: 861
Phyllotreta seidlitzi Weise, 1888: Ins. Deutsch. Col., 6: 861

This species is known from Ankara, Isparta, İstanbul, İzmir and Mersin provinces in

Turkey. It is distributed in Europe (BU CR GR IT) and Asia (TR). ***Material examined:*** **Ankara prov.:** Ayaş, İlyakut, 31.VII.1980, leg. Y. Özdemir, 1 specimen; **Isparta prov.:** Gelendost, 11.V.1983, *Triticum,* leg. M. Kaya, 1 specimen.

Phyllotreta vittula **(Redtenbacher, 1849)**

Haltica vittula L. Redtenbacher, 1849: Fauna Austr., p. 532
Phyllotreta vittula ssp. *exigua* Heikertinger, 1911: Verh. Zool.-bot. Ges. Wien, 61: 160
Phyllotreta rivularis Motschulsky, 1849: Bull. Mosc., 22: 147.

This species is known from Ankara, Antalya, Edirne, Erzurum, Isparta, İzmir provinces in Turkey. It is distributed in Europe (AL AU BE BH BU BY CR CZ DE EN FI FR GB GE GR HU IR IT LA LT LU MC NL NR PL RO RU SK SL SP SV SZ TR UK YU), Asia (AB AF ES FE HEI IN KI KZ MG TD TR WS "Korea") and introduced to Nearctic region.

Phyllotreta weiseana **Jakobson, 1901**

Phyllotreta weiseana Jakobson, 1901: Öfv. Finska Vetesk.-Soc. Förh., 43: 141
Phyllotreta denticornis Weise, 1890: Wien. Ent. Z., 9: 112 [HN]

This species is known from Ankara, Bayburt, Erzurum and Konya provinces in Turkey. It is distributed in Europe (ST UK) and Asia (AB IN KZ TR). ***Material examined:*** **Ankara prov.:** Polatlı, Yassıhöyük, 11.VIII.2015, 696 m, leg. D. Şahin, 1 specimen; **Kayseri prov.:** Develi, Çölgölü, 20.VI.2016, 1078 m, leg. D. Şahin, 1 specimen; Kocasinan, Karakimse, 23.VI.2016, 1154 m, leg. D. Şahin, 1 specimen; Kocasinan, Ebiç, 23.VI.2016, 1053 m, leg. D. Şahin, 3 specimens; Kocasinan, Kalkancık, 23.VI.2016, 1111 m, leg. D. Şahin, 2 specimens; Kocasinan, Yuvalı, 24.VI.2016, 1115 m, leg. D. Şahin, 8 specimens; Tomarza, Böke, 12.VII.2016, 1343 m, leg. D. Şahin, 4 specimens; Tomarza, Köprübaşı, 12.VII.2016, 1350 m, leg. D. Şahin, 1 specimen; Akkışla, Alevkışla, 14.VII.2016, 1278 m, leg. D. Şahin, 1 specimen. ***Remarks:*** The species is a new record to Kayseri province for Turkey.

DISCUSSION

The center of diversity of the genus *Phyllotreta* Chevrolat seems to be in temperate regions. *Phyllotreta* Chevrolat is one of the largest alticine genera with 144 species in the Palearctic region and more than 250 species worldwide (Döberl in Löbl & Smetana, 2010; Konstantinov & Vandenberg, 2015).

According to findings, Turkish fauna of *Phyllotreta* Chevrolat includes 44 species with the newly described species, *P. aygulae* and *P. bilgeae*, and a new record, *P. araxicola*. Thus Turkish *Phyllotreta* fauna is rather rich. It is represented with approximately 31% of Palaearctic species. Among them, six species are endemic to Turkey now as *P. aygulae* Özdikmen et al., *P. bilgeae* Özdikmen & Coral Şahin, *P. bolognai* Biondi, *P. oltuensis* Gruev & Aslan, *P. ozbeki* Gruev & Aslan and *P. toelgi* Heikertinger. So the endemism ratio for *Phyllotreta* in Turkey is approximately 14%. Another endemic species *P. ispartaensis* Gök, 2005 was synonymized with *P. maculicornis* Pic, 1906 by Ekiz et al. (2013).

In the present work, a total of 2864 specimens of 27 species of the genus were examined. These species that constitute approximately 61% of whole Turkish fauna, are *P. araxicola* (1 specimen), *P. astrachanica* (34 specimens), *P. atra* (919 specimens), *P. aygulae* (26 specimens), *P. bilgeae* (2 specimens), *P. caucasicola* (3 specimens), *P. corrugata* (106 specimens), *P. cruciferae* (204 specimens), *P. diademata* (11 specimens), *P. erysimi* (39 specimens), *P. fallaciosa* (22 specimens), *P. lativittata* (3), *P. maculicornis* (2 specimens), *P. nemorum* (9 specimens), *P. nigripes* (1183 specimens), *P. nodicornis* (6 specimens), *P. ochripes* (10 specimens), *P. pallidipennis* (68 specimens), *P. pontoaegeica* (9 specimens), *P. procera* (2 specimens), *P. punctulata* (12 specimens), *P. striolata*

(5 specimens), *P. toelgi* (1 specimen), *P. undulata* (81 specimens), *P. variipennis* (82 specimens), *P. vilis* (2 specimens) and *P. weiseana* (22 specimens).

Accordingly eleven species are recorded for the first time from Çankırı province as *P. atra*, *P. caucasicola*, *P. corrugata*, *P. erysimi*, *P. nemorum*, *P. nigripes*, *P. nodicornis*, *P. pontoaegeica*, *P. procera*, *P. punctulata* and *P. undulata*. Eleven species are recorded for the first time from Bartın province as *P. astrachanica*, *P. atra*, *P. cruciferae*, *P. diademata*, *P. erysimi*, *P. lativittata*, *P. nemorum*, *P. nigripes*, *P. punctulata*, *P. undulata* and *P. variipennis*. Seven species are recorded for the first time from Zonguldak province as *P. atra*, *P. cruciferae*, *P. lativittata*, *P. ochripes*, *P. striolata*, *P. undulata* and *P. variipennis*. Four species are recorded for the first time from Kayseri province as *P. erysimi* Weise, *P. fallaciosa*, *P. undulata* and *P. weiseana*. Three species are recorded for the first time from Ankara province as *P. fallaciosa*, *P. punctulata* and *P. undulata*. Two species are recorded for the first time from Karaman province as *P. atra* and *P. variipennis*. Two species are recorded for the first time from Afyon province as *P. atra* and *P. nigripes*. One species is recorded for the first time from Bolu province as *P. nigripes*. And one species is recorded for the first time from Şanlıurfa province as *P. corrugata*.

Moreover, in the present review, the records of European Turkey of *P. cruciferae* and *P. diademata* and the records of Anatolia of *P. fornuseki*, *P. ganglbaueri* and *P. lorestanica* are firstly given in addition to the distribution data in the Palaearctic catalogue of Döberl in Löbl & Smetana (2010).

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